## BILL OF MATERIAL FOR ONE CORED SLAB SECTION SPAN A EXTERIOR UNIT | INTERIOR UNIT LENGTH | WEIGHT | LENGTH | WEIGHT BAR | NUMBER | SIZE | TYPE | 4 | # 4 | STR | 20'-6" 20'-6" | 55 55 8 | # 5 4'-3" 4′-3″ S1 | 35 35 76 | # 4 5′-4″ 271 5'-4" 271 40 # 5 \* S3 8′-2″ 341 REINFORCING STEEL 361 LBS. 361 \* EPOXY COATED REINFORCING STEEL 341 5,000 P.S.I. CONCRETE CU. YD. 5.4 5.4 12 12 1/2" Ø L.R. STRANDS

BIL	BILL OF MATERIAL FOR ONE CORED SLAB SECTION									
	SPAN B									
EXTERIOR UNIT   INTERIOR UNIT										
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT			
B2	4	# 4	STR	28'-6"	76	20'-6"	76			
S1	8	# 5	1	4'-3"	35	4'-3"	35			
S2	108	# 4	1	5′-4″	385	5′-4″	385			
* S3	56	# 5	2	8'-2"	477					
<b>REINFO</b>	RCING S	TEEL	LBS.		496		496			
* EPOX	Y COATE	.D								
REINFORCING STEEL LBS. 477										
6,000	P.S.I.C	ONCRETE	CU. YD.	7.6		7.6				
1/2" Ø L	.R. STRAI	NDS	No.	23 23			23			

BILL OF MATERIAL FOR ONE CORED SLAB SECTION SPAN C									
	EXTERIOR UNIT   INTERIOR UNIT								
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT		
В3	4	# 4	STR	28'-0"	75	20′-6″	75		
S1	8	# 5	1	4'-3"	35	4'-3"	35		
S2	106	# 4	1	5′-4″	378	5′-4″	378		
* S3	55	# 5	2	8'-2"	468				
	ORCING :		LBS.		488		488		
₩ EPOX	Y COATE	ED							
REINFORCING STEEL				468		***************************************			
6,000 P.S.I. CONCRETE CU.				7 <b>.</b> 5		7.5			
1/2"Ø L	.R. STRA	NDS	No.		23		23		

CORED SLABS REQUIRED								
	CONED	JLADJ I	ILGOTIVED					
		NUMBER	LENGTH	TOTAL LENGTH				
SPAN A	EXTERIOR C.S.	2	38′-9¾″	77'-71/2"				
	INTERIOR C.S.	10	38′-9¾″	388′-11/2″				
SPAN B	EXTERIOR C.S.	2	54'-10 <sup>1</sup> / <sub>2</sub> "	109′-9″				
	INTERIOR C.S.	10	54'-10 <sup>1</sup> / <sub>2</sub> "	548′-9″				
SPAN C	EXTERIOR C.S.	2	53′-9¾″	107'-71/2"				
	INTERIOR C.S.	10	53′-9¾″	538′-11/2″				
TOTAL		36		1770.00 FT.				

ASSEMBLED BY: N.Q.TRA CHECKED BY: M.A.ALLE	
	REV. 10/17/00 RWW/LES REV. 7/10/01 RWW/LES REV. 5/7/03R RWW/JTE

DEAD LOAD DEFLECTION	AND	CAMBER
SPAN A		
		3'-0"× 1'-9"
		1/2"Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	<b>A</b>	5/8"
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	<b>\</b>	1/8"
FINAL CAMBER	<b>A</b>	1/2"
** INCLUDES FUTURE WEARING SURFAC	Ε	

DEAD LOAD DEFLECTION	A۱	ND CAMBER
SPAN B		
		3'-0"× 1'-9"
		½″Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	A	115/16"
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD **	<b>\</b>	<sup>3</sup> / <sub>8</sub> "
FINAL CAMBER	<b>A</b>	1% <sub>6</sub> ″
NAV TROUBER FUTURE WEARTHS CUREA	^ F	

\*\* INCLUDES FUTURE WEARING SURFACE

DEAD LOAD DEFLECTION	AND	CAMBER
SPAN C		
		3'-0" × 1'-9"
		½″Ø L.R. STRAND
CAMBER (SLAB ALONE IN PLACE)	<b>A</b>	2″
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	<b>\</b>	3/8″
FINAL CAMBER	<b>A</b>	15/8″
THE THE LIDES FUTURE WEARTING CUREAG	_	

\*\* INCLUDES FUTURE WEARING SURFACE

BILL	OF N	MATER	IAL	FOR PA	RAPE	Γ ΑΝ[	) END	POSTS
BAR	BAR:	S PER S	SPAN	TOTAL NO.	SIZE	TYPE	LENGTH	WEIGHT
	SPAN A	SPAN B	SPAN C					
<b>₩</b> B4	16			16	# 5	STR	38′-5″	641
<b>★</b> B5		16		16	# 5	STR	54′-6″	909
<b>₩</b> B6			16	16	# 5	STR	53′-5″	891
<b>★</b> E1	4		4	8	# 7	STR	2'-9"	45
<b>∗</b> E2	4		4	8	# 7	STR	3′-3″	53
* E3	4		4	8	# 7	STR	3′-9″	61
<b></b> ₩ E4	4		4	8	# 7	STR	4′-3″	69
<b>★</b> E5	4		4	8	# 7	STR	4′-7″	75
<b>∗</b> F1	4		4	8	# 6	STR	1′-10″	22
*F2	4		4	8	# 6	STR	3′-0″	36
* F3	4		4	8	# 6	STR	3′-8″	44
<b>★</b> EP0>			NFORCI		LBS.			2846
CLASS		NCRETE		CU.YDS.				35.8
TOTAL	LIN.F	r. OF CC	NCRETE	PARAPET				295 <b>.</b> 50

## NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE  $2^{1}/2^{n}$ Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH GROUT. THE  $2^{1}/2^{n}$ Ø DOWEL HOLES AT EXPANSION ENDS OF SLAB SECTIONS SHALL BE FILLED WITH JOINT SEALER MATERIAL TO  $1^{1}/2^{n}$  ABOVE THE TOP OF DOWELS AND THEN FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE B LOW MODULUS SILICONE SEALANT. THE 2"Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, A POSITIVE HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. THIS SYSTEM SHALL BE DESIGNED TO BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED RELEASE STRENGTH. AT LEAST THREE WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI IN SPAN A AND NOT LESS THAN 4800 PSI IN SPANS B & C.

ALL REINFORCING STEEL IN PARAPETS AND END POSTS SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT

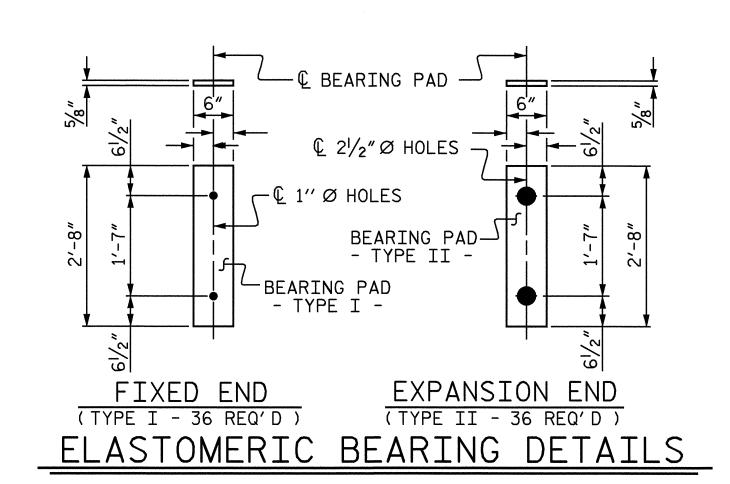
APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS. FOR EPOXY PROTECTIVE COATING. SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

ELASTOMER IN ALL BEARINGS SHALL BE 60 DUROMETER HARDNESS. FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

BAR TYPES
S1 1'-9" S2 2'-8" 1) "5-,1 1) "5-,1
93/4"  2 6 2 2 43/4"
ALL BAR DIMENSIONS ARE OUT TO OUT

GRADE 270 STRANDS						
½″∅ L.R.						
REA SQUARE INCHES )	0.153					
JLTIMATE STRENGTH LBS.PER STRAND )	41,300					
APPLIED PRESTRESS LBS.PER STRAND )	30,980					



PROJECT NO. \_\_\_\_\_B-3704 \_\_\_\_\_WAKE \_\_\_\_\_county STATION: \_\_\_17+05.00 -L-

SHEET 9 OF 9

DEPARTMENT OF TRANSPORTATION

STANDARD

3'-0" X 1'-9"

PRESTRESSED

CONCRETE CORED

SLAB UNIT

<u>0</u>	CTOBER					1981
		RE\	/ISIONS	1		SHEET NO.
).	BY:	DATE:	NO.	BY:	DATE:	5-12
			3			TOTAL SHEETS
丌			AL			23

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